

- MOD S5.84** The conditions for the use of the frequency 518 kHz by the maritime mobile service are prescribed in Articles S31, S52 and Appendix S13 (see Resolution COM4-7).
- SUP S5.85**
- NOC S5.86** In Region 2, in the band 525 - 535 kHz the carrier power of broadcasting stations shall not exceed 1 kW during the day and 250 W at night.
- NOC S5.87** *Additional allocation:* in Angola, Botswana, Lesotho, Malawi, Mozambique, Namibia, South Africa, Swaziland, Zambia and Zimbabwe, the band 526.5 - 535 kHz is also allocated to the mobile service on a secondary basis.
- NOC S5.88** *Additional allocation:* in China, the band 526.5 - 535 kHz is also allocated to the aeronautical radionavigation service on a secondary basis.

kHz
1 605 - 1 800

Allocation to Services		
Region 1	Region 2	Region 3
	1 605 - 1 625	
1 606.5 - 1 625 MARITIME MOBILE S5.90 FIXED LAND MOBILE S5.92	BROADCASTING S5.89 S5.90	1 606.5 - 1 800 FIXED MOBILE RADIOLOCATION RADIONAVIGATION
1 625 - 1 635 RADIOLOCATION S5.93	1 625 - 1 705 BROADCASTING S5.89 FIXED MOBILE Radiolocation S5.90	
1 635 - 1 800 MARITIME MOBILE S5.90 FIXED LAND MOBILE S5.92 S5.96	1 705 - 1 800 FIXED MOBILE RADIOLOCATION AERONAUTICAL RADIONAVIGATION	S5.91

- NOC S5.89** In Region 2, the use of the band 1 605 - 1 705 kHz by stations of the broadcasting service is subject to the Plan established by the Regional Administrative Radio Conference (Rio de Janeiro, 1988).
- The examination of frequency assignments to stations of the fixed and mobile services in the band 1 625 - 1 705 kHz shall take account of the allotments appearing in the Plan established by the Regional Administrative Radio Conference (Rio de Janeiro, 1988).
- NOC S5.90** In the band 1 605 - 1 705 kHz, in cases where a broadcasting station of Region 2 is concerned, the service area of the maritime mobile stations in Region 1 shall be limited to that provided by ground-wave propagation.
- MOD S5.91** *Additional allocation:* in Australia, the Philippines, Singapore and Sri Lanka, the band 1 606.5 - 1 705 kHz is also allocated to the broadcasting service on a secondary basis.
- MOD S5.92** Some countries of Region 1 use radiodetermination systems in the bands 1 606.5 - 1 625 kHz, 1 635 - 1 800 kHz, 1 850 - 2 160 kHz, 2 194 - 2 300 kHz, 2 502 - 2 850 kHz and 3 500 - 3 800 kHz, subject to agreement obtained under No. S9.21. The radiated mean power of these stations shall not exceed 50 W.
- MOD S5.93** *Additional allocation:* in Angola, Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Kazakhstan, Latvia, Lithuania, Moldova, Mongolia, Nigeria, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, Russia, Tajikistan, Chad, Turkmenistan and Ukraine, the bands 1 625 - 1 635 kHz, 1 800 - 1 810 kHz and 2 160 - 2 170 kHz are also allocated to the fixed and land mobile services on a primary basis, subject to agreement obtained under No. S9.21.
- SUP S5.94**
- SUP S5.95**
- MOD S5.96** In Germany, Armenia, Azerbaijan, Belarus, Denmark, Estonia, Finland, Georgia, Hungary, Ireland, Israel, Jordan, Kazakhstan, Latvia, Lithuania, Malta, Moldova, Norway, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Republic, the United Kingdom, Russia, Sweden, Tajikistan, Turkmenistan and Ukraine, administrations may allocate up to 200 kHz to their amateur service in the bands 1 715 - 1 800 kHz and 1 850 - 2 000 kHz. However, when allocating the bands within this range to their amateur service, administrations shall, after prior consultation with administrations of neighbouring countries, take such steps as may be necessary to prevent harmful interference from their amateur service to the fixed and mobile services of other countries. The mean power of any amateur station shall not exceed 10 W.

kHz
1 800 - 2 065

MOD
MOD

Allocation to Services			
Region 1		Region 2	Region 3
1 800 – 1 810 RADIOLOCATION S5.93		1 800 – 1 850 AMATEUR	1 800 – 2 000 AMATEUR FIXED MOBILE except aeronautical mobile RADIONAVIGATION Radiolocation
1 810 – 1 850 AMATEUR S5.98 S5.99 S5.100 S5.101			
1 850 – 2 000 FIXED MOBILE except aeronautical mobile S5.92 S5.96 S5.103		1 850 – 2 000 AMATEUR FIXED MOBILE except aeronautical mobile RADIOLOCATION RADIONAVIGATION S5.102	
2 000 – 2 025 FIXED MOBILE except aeronautical mobile (R) S5.92 S5.103		2 000 – 2 065 FIXED MOBILE	
2 025 – 2 045 FIXED MOBILE except aeronautical mobile (R) Meteorological Aids S5.104 S5.92 S5.103			

- NOC S5.97** In Region 3, the Loran system operates either on 1 850 kHz or 1 950 kHz, the bands occupied being 1 825 - 1 875 kHz and 1 925 - 1 975 kHz respectively. Other services to which the band 1 800 - 2 000 kHz is allocated may use any frequency therein on condition that no harmful interference is caused to the Loran system operating on 1 850 kHz or 1 950 kHz.
- MOD S5.98** *Alternative allocation:* in Angola, Armenia, Austria, Azerbaijan, Belarus, Belgium, Bulgaria, Cameroon, the Congo, Denmark, Egypt, Eritrea, Spain, Ethiopia, France, Georgia, Greece, Italy, Kazakhstan, Lebanon, Lithuania, Luxembourg, Malawi, Moldova, Uzbekistan, the Netherlands, Syria, Kyrgyzstan, Russia, Somalia, Tajikistan, Tanzania, Tunisia, Turkmenistan, Turkey and Ukraine, the band 1 810 - 1 830 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
- MOD S5.99** *Additional allocation:* in Saudi Arabia, Bosnia and Herzegovina, Iraq, The Former Yugoslav Republic of Macedonia, Libya, Slovakia, the Czech Republic, Romania, Slovenia, Chad, Togo and Yugoslavia, the band 1 810 - 1 830 kHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
- MOD S5.100** In Region 1, the authorization to use the band 1 810 - 1 830 kHz by the amateur service in countries situated totally or partially north of 40° N shall be given only after consultation with the countries mentioned in Nos. S5.98 and S5.99 to define the necessary steps to be taken to prevent harmful interference between amateur stations and stations of other services operating in accordance with Nos. S5.98 and S5.99.
- NOC S5.101** *Alternative allocation:* in Burundi and Lesotho, the band 1 810 - 1 850 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
- NOC S5.102** *Alternative allocation:* in Argentina, Bolivia, Chile, Mexico, Paraguay, Peru, Uruguay and Venezuela, the band 1 850 - 2 000 kHz is allocated to the fixed, mobile except aeronautical mobile, radiolocation and radionavigation services on a primary basis.
- NOC S5.103** In Region 1, in making assignments to stations in the fixed and mobile services in the bands 1 850 - 2 045 kHz, 2 194 - 2 498 kHz, 2 502 - 2 625 kHz and 2 650 - 2 850 kHz, administrations should bear in mind the special requirements of the maritime mobile service.
- NOC S5.104** In Region 1, the use of the band 2 025 - 2 045 kHz by the meteorological aids service is limited to oceanographic buoy stations.

kHz
2 045 – 2 501

Allocation to Services		
Region 1	Region 2	Region 3
2 045 – 2 160		
MARITIME MOBILE FIXED LAND MOBILE S5.92	2 065 – 2 107 MARITIME MOBILE S5.105 S5.106	
2 160 – 2 170 MOD RADIOLOCATION MOD S5.93 S5.107	2 107 – 2 170 FIXED MOBILE	
2 170 – 2 173.5	MARITIME MOBILE	
2 173.5 – 2 190.5	MOBILE (distress and calling) S5.108 S5.109 S5.110 S5.111	
2 190.5 – 2 194	MARITIME MOBILE	
2 194 – 2 300 FIXED MOBILE except aeronautical mobile (R) S5.92 S5.103 S5.112	2 194 – 2 300 FIXED MOBILE S5.112	
2 300 – 2 498 FIXED MOBILE except aeronautical mobile (R) BROADCASTING S5.113 S5.103	2 300 – 2 495 FIXED MOBILE BROADCASTING S5.113	
2 498 – 2 501 STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz)	2 495 – 2 501 STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz)	

- MOD S5.105** In Region 2, except in Greenland, coast stations and ship stations using radiotelephony in the band 2 065 - 2 107 kHz shall be limited to class J3E emissions and to a peak envelope power not exceeding 1 kW. Preferably, the following carrier frequencies should be used: 2 065.0 kHz, 2 079.0 kHz, 2 082.5 kHz, 2 086.0 kHz, 2 093.0 kHz, 2 096.5 kHz, 2 100.0 kHz and 2 103.5 kHz. In Argentina and Uruguay, the carrier frequencies 2 068.5 kHz and 2 075.5 kHz are also used for this purpose, while the frequencies within the band 2 072 - 2 075.5 kHz are used as provided in No. S52.165.
- NOC S5.106** In Regions 2 and 3, provided no harmful interference is caused to the maritime mobile service, the frequencies between 2 065 kHz and 2 107 kHz may be used by stations of the fixed service communicating only within national borders and whose mean power does not exceed 50 W. In notifying the frequencies, the attention of the Bureau should be drawn to these provisions.
- (MOD) S5.107** *Additional allocation:* in Saudi Arabia, Botswana, Eritrea, Ethiopia, Iraq, Lesotho, Libya, Malawi, Somalia, Swaziland and Zambia, the band 2 160 - 2 170 kHz is also allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis. The mean power of stations in these services shall not exceed 50 W.
- NOC S5.108** The carrier frequency 2 182 kHz is an international distress and calling frequency for radiotelephony. The conditions for the use of the band 2 173.5 - 2 190.5 kHz are prescribed in Articles S31 and S52 and in Appendix S13.
- NOC S5.109** The frequencies 2 187.5 kHz, 4 207.5 kHz, 6 312 kHz, 8 414.5 kHz, 12 577 kHz and 16 804.5 kHz are international distress frequencies for digital selective calling. The conditions for the use of these frequencies are prescribed in Article S31.
- NOC S5.110** The frequencies 2 174.5 kHz, 4 177.5 kHz, 6 268 kHz, 8 376.5 kHz, 12 520 kHz and 16 695 kHz are international distress frequencies for narrow-band direct-printing telegraphy. The conditions for the use of these frequencies are prescribed in Article S31.
- NOC S5.111** The carrier frequencies 2 182 kHz, 3 023 kHz, 5 680 kHz, 8 364 kHz and the frequencies 121.5 MHz, 156.8 MHz and 243 MHz may also be used, in accordance with the procedures in force for terrestrial radiocommunication services, for search and rescue operations concerning manned space vehicles. The conditions for the use of the frequencies are prescribed in Article S31 and in Appendix S13.
- The same applies to the frequencies 10 003 kHz, 14 993 kHz and 19 993 kHz, but in each of these cases emissions must be confined in a band of ± 3 kHz about the frequency.

MOD S5.112

Alternative allocation: in Belgium, Bosnia and Herzegovina, Cyprus, Denmark, Spain, France, Greece, Iceland, Italy, Malta, Norway, the United Kingdom, Singapore, Sri Lanka, Turkey and Yugoslavia, the band 2 194 - 2 300 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

NOC S5.113

For the conditions for the use of the bands 2 300 - 2 495 kHz (2 498 kHz in Region 1), 3 200 - 3 400 kHz, 4 750 - 4 995 kHz and 5 005 - 5 060 kHz by the broadcasting service, see Nos. **S5.16** to **S5.20**, **S5.21** and **S23.3** to **S23.10**.

kHz
2 501 – 3 230

Allocation to Services		
Region 1	Region 2	Region 3
2 501 – 2 502	STANDARD FREQUENCY AND TIME SIGNAL Space Research	
2 502 – 2 625 FIXED MOBILE except aeronautical mobile (R) S5.92 S5.103 S5.114	2 502 – 2 505 STANDARD FREQUENCY AND TIME SIGNAL	2 505 – 2 850 FIXED MOBILE
2 625 – 2 650 MARITIME MOBILE MARITIME RADIONAVIGATION S5.92		
2 650 – 2 850 FIXED MOBILE except aeronautical mobile (R) S5.92 S5.103		
2 850 – 3 025	AERONAUTICAL MOBILE (R) S5.111 S5.115	
3 025 – 3 155	AERONAUTICAL MOBILE (OR)	
3 155 – 3 200	FIXED MOBILE except aeronautical mobile (R) S5.116 S5.117	
3 200 – 3 230	FIXED MOBILE except aeronautical mobile (R) BROADCASTING S5.113 S5.116	

- MOD S5.114** *Alternative allocation:* in Belgium, Bosnia and Herzegovina, Cyprus, Denmark, Spain, France, Greece, Iraq, Italy, Malta, Norway, the United Kingdom, Turkey and Yugoslavia, the band 2 502 - 2 625 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
- NOC S5.115** The carrier (reference) frequencies 3 023 kHz and 5 680 kHz may also be used, in accordance with Article S31 and Appendix S13 by stations of the maritime mobile service engaged in coordinated search and rescue operations.
- NOC S5.116** Administrations are urged to authorize the use of the band 3 155 - 3 195 kHz to provide a common worldwide channel for low power wireless hearing aids. Additional channels for these devices may be assigned by administrations in the bands between 3 155 kHz and 3 400 kHz to suit local needs.
- It should be noted that frequencies in the range 3 000 kHz to 4 000 kHz are suitable for hearing aid devices which are designed to operate over short distances within the induction field.
- MOD S5.117** *Alternative allocation:* in Belgium, Bosnia and Herzegovina, Cameroon, Cyprus, Côte d'Ivoire, Denmark, Egypt, Spain, France, Greece, Iceland, Italy, Liberia, Malta, Norway, the United Kingdom, Singapore, Sri Lanka, Togo, Turkey and Yugoslavia, the band 3 155 - 3 200 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

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- MOD S5.118** *Additional allocation:* in the United States, Japan, Mexico, Peru and Uruguay, the band 3 230 - 3 400 kHz is also allocated to the radiolocation service on a secondary basis.
- NOC S5.119** *Additional allocation:* in Honduras, Mexico, Peru and Venezuela, the band 3 500 - 3 750 kHz is also allocated to the fixed and mobile services on a primary basis.
- NOC S5.120** For the use of the bands allocated to the amateur service at 3.5 MHz, 7.0 MHz, 10.1 MHz, 14.0 MHz, 18.068 MHz, 21.0 MHz, 24.89 MHz and 144 MHz in the event of natural disasters, see Resolution 640.
- SUP S5.121**
- NOC S5.122** *Alternative allocation:* in Argentina, Bolivia, Chile, Ecuador, Paraguay, Peru and Uruguay, the band 3 750 - 4 000 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
- MOD S5.123** *Additional allocation:* in Botswana, Lesotho, Malawi, Mozambique, Namibia, South Africa, Swaziland, Zambia and Zimbabwe, the band 3 900 - 3 950 kHz is also allocated to the broadcasting service on a primary basis, subject to agreement obtained under No. S9.21.
- NOC S5.124** *Additional allocation:* in Canada, the band 3 950 - 4 000 kHz is also allocated to the broadcasting service on a primary basis. The power of broadcasting stations operating in this band shall not exceed that necessary for a national service within the frontier of this country and shall not cause harmful interference to other services operating in accordance with the Table.
- NOC S5.125** *Additional allocation:* in Greenland, the band 3 950 - 4 000 kHz is also allocated to the broadcasting service on a primary basis. The power of the broadcasting stations operating in this band shall not exceed that necessary for a national service and shall in no case exceed 5 kW.
- NOC S5.126** In Region 3, the stations of those services to which the band 3 995 - 4 005 kHz is allocated may transmit standard frequency and time signals.
- NOC S5.127** The use of the band 4 000 - 4 063 kHz by the maritime mobile service is limited to ship stations using radiotelephony (see No. S52.221 and Appendix S17).

kHz
4 063 – 5 450

Allocation to Services		
Region 1	Region 2	Region 3
4 063 – 4 438	MARITIME MOBILE S5.109 S5.110 S5.130 S5.131 S5.132 S5.128 S5.129	
4 438 – 4 650 FIXED MOBILE except aeronautical mobile (R)		4 438 – 4 650 FIXED MOBILE except aeronautical mobile
4 650 – 4 700	AERONAUTICAL MOBILE (R)	
4 700 – 4 750	AERONAUTICAL MOBILE (OR)	
4 750 – 4 850 FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE BROADCASTING S5.113	4 750 – 4 850 FIXED MOBILE except aeronautical mobile (R) BROADCASTING S5.113	4 750 – 4 850 FIXED BROADCASTING S5.113 Land Mobile
4 850 – 4 995	FIXED LAND MOBILE BROADCASTING S5.113	
4 995 – 5 003	STANDARD FREQUENCY AND TIME SIGNAL (5 000 kHz)	
5 003 – 5 005	STANDARD FREQUENCY AND TIME SIGNAL Space Research	
5 005 – 5 060	FIXED BROADCASTING S5.113	
5 060 – 5 250	FIXED Mobile except aeronautical mobile S5.133	
5 250 – 5 450	FIXED MOBILE except aeronautical mobile	

- MOD S5.128** In Afghanistan, Argentina, Armenia, Australia, Azerbaijan, Belarus, Botswana, Burkina Faso, Central African Republic, China, Georgia, India, Kazakhstan, Mali, Moldova, Niger, Kyrgyzstan, Russia, Tajikistan, Chad, Turkmenistan and Ukraine, in the bands 4 063 - 4 123 kHz, 4 130 - 4 133 kHz and 4 408 - 4 438 kHz, stations of limited power in the fixed service which are situated at least 600 km from the coast may operate on condition that harmful interference is not caused to the maritime mobile service.
- NOC S5.129** On condition that harmful interference is not caused to the maritime mobile service, the frequencies in the bands 4 063 - 4 123 kHz and 4 130 - 4 438 kHz may be used exceptionally by stations in the fixed service communicating only within the boundary of the country in which they are located with a mean power not exceeding 50 W.
- NOC S5.130** The conditions for the use of the carrier frequencies 4 125 kHz and 6 215 kHz are prescribed in Articles S31 and S52 and Appendix S13.
- (MOD) S5.131** The frequency 4 209.5 kHz is used exclusively for the transmission by coast stations of meteorological and navigational warnings and urgent information to ships by means of narrow-band direct-printing techniques (see Resolution COM4-7).
- NOC S5.132** The frequencies 4 210 kHz, 6 314 kHz, 8 416.5 kHz, 12 579 kHz, 16 806.5 kHz, 19 680.5 kHz, 22 376 kHz and 26 100.5 kHz are the international frequencies for the transmission of Maritime Safety Information (MSI) (see Resolution 333 (Mob-87) and Appendix S17).
- MOD S5.133** *Different category of service:* in Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Latvia, Lithuania, Moldova, Uzbekistan, Kyrgyzstan, Russia, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 5 130 - 5 250 kHz to the mobile, except aeronautical mobile, service is on a primary basis (see No. S5.33).

kHz
5 450 – 7 100

Allocation to Services		
Region 1	Region 2	Region 3
5 450 – 5 480 FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	5 450 – 5 480 AERONAUTICAL MOBILE (R)	5 450 – 5 480 FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE
5 480 – 5 680	AERONAUTICAL MOBILE (R) S5.111 S5.115	
5 680 – 5 730	AERONAUTICAL MOBILE (OR) S5.111 S5.115	
5 730 – 5 900 FIXED LAND MOBILE	5 730 – 5 900 FIXED MOBILE except aeronautical mobile (R)	5 730 – 5 900 FIXED Mobile except aeronautical mobile (R)
5 900 – 5 950	BROADCASTING S5.134 S5.135 S5.136	
5 950 – 6 200	BROADCASTING	
6 200 – 6 525	MARITIME MOBILE S5.109 S5.110 S5.130 S5.132 S5.137	
6 525 – 6 685	AERONAUTICAL MOBILE (R)	
6 685 – 6 765	AERONAUTICAL MOBILE (OR)	
6 765 – 7 000	FIXED Land Mobile S5.139 S5.138	
7 000 – 7 100	AMATEUR S5.120 AMATEUR-SATELLITE S5.140 S5.141	

- NOC S5.134** The use of the bands 5 900 – 5 950 kHz, 7 300 - 7 350 kHz, 9 400 - 9 500 kHz, 11 600 - 11 650 kHz, 12 050 - 12 100 kHz, 13 570 - 13 600 kHz, 13 800 - 13 870 kHz, 15 600 - 15 800 kHz, 17 480 - 17 550 kHz and 18 900 - 19 020 kHz by the broadcasting service is limited to single-sideband emissions with the characteristics specified in Appendix S11 to the Radio Regulations.
- NOC S5.135** The use of the bands 5 900 - 5 950 kHz, 7 300 - 7 350 kHz, 9 400 - 9 500 kHz, 11 600 - 11 650 kHz, 12 050 - 12 100 kHz, 13 570 - 13 600 kHz, 13 800 - 13 870 kHz, 15 600 - 15 800 kHz, 17 480 - 17 550 kHz and 18 900 - 19 020 kHz by the broadcasting service shall be subject to the planning procedures to be drawn up by a competent world administrative radio conference.
- NOC S5.136** The band 5 900 - 5 950 kHz is allocated, until 1 April 2007, to the fixed service on a primary basis, as well as to the following services: in Region 1 to the land mobile service on a primary basis, in Region 2 to the mobile except aeronautical mobile (R) service on a primary basis, and in Region 3 to the mobile except aeronautical mobile (R) service on a secondary basis, subject to application of the procedure referred to in Resolution 21 (WARC-92). After 1 April 2007, frequencies in this band may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which they are located, on the condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.
- NOC S5.137** On condition that harmful interference is not caused to the maritime mobile service, the bands 6 200 - 6 213.5 kHz and 6 220.5 - 6 525 kHz may be used exceptionally by stations in the fixed service, communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 W. At the time of notification of these frequencies, the attention of the Bureau will be drawn to the above conditions.
- NOC S5.138** The following bands:
6 765 - 6 795 kHz (centre frequency 6 780 kHz),
433.05 - 434.79 MHz (centre frequency 433.92 MHz) in Region 1 except in the countries mentioned in No. S5.280,
61 - 61.5 GHz (centre frequency 61.25 GHz),
122 - 123 GHz (centre frequency 122.5 GHz), and
244 - 246 GHz (centre frequency 245 GHz)

are designated for industrial, scientific and medical (ISM) applications. The use of these frequency bands for ISM applications shall be subject to special authorization by the administration concerned, in agreement with other administrations whose radiocommunication services might be affected. In applying this provision, administrations shall have due regard to the latest relevant ITU-R Recommendations.

- MOD S5.139** *Different category of service:* in Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Latvia, Lithuania, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Russia, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 6 765 - 7 000 kHz to the land mobile service is on a primary basis (see No. S5.33).
- MOD S5.140** *Additional allocation:* in Angola, Iraq, Rwanda, Somalia and Togo, the band 7 000 - 7 050 kHz is also allocated to the fixed service on a primary basis.
- MOD S5.141** *Alternative allocation:* in Egypt, Eritrea, Ethiopia, Guinea, Libya, Madagascar and Malawi, the band 7 000 - 7 050 kHz is allocated to the fixed service on a primary basis.

kHz
7 100 – 10 003

Allocation to Services		
Region 1	Region 2	Region 3
7 100 – 7 300 BROADCASTING	7 100 – 7 300 AMATEUR S5.120 S5.142	7 100 – 7 300 BROADCASTING
7 300 – 7 350	BROADCASTING S5.134 S5.135 S5.143	
7 350 – 8 100	FIXED Land Mobile S5.144	
8 100 – 8 195	FIXED MARITIME MOBILE	
8 195 – 8 815	MARITIME MOBILE S5.109 S5.110 S5.132 S5.145 S5.111	
8 815 – 8 965	AERONAUTICAL MOBILE (R)	
8 965 – 9 040	AERONAUTICAL MOBILE (OR)	
9 040 – 9 400	FIXED	
9 400 – 9 500	BROADCASTING S5.134 S5.135 S5.146	
9 500 – 9 900	BROADCASTING S5.147 S5.148	
9 900 – 9 995	FIXED	
9 995 – 10 003	STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz) S5.111	

- NOC S5.142** The use of the band 7 100 - 7 300 kHz in Region 2 by the amateur service shall not impose constraints on the broadcasting service intended for use within Region 1 and Region 3.
- NOC S5.143** The band 7 300 - 7 350 kHz is allocated, until 1 April 2007, to the fixed service on a primary basis and to the land mobile service on a secondary basis, subject to application of the procedure referred to in Resolution 21 (WARC-92). After 1 April 2007, frequencies in this band may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.
- NOC S5.144** In Region 3, the stations of those services to which the band 7 995 - 8 005 kHz is allocated may transmit standard frequency and time signals.
- NOC S5.145** The conditions for the use of the carrier frequencies 8 291 kHz, 12 290 kHz and 16 420 kHz are prescribed in Articles S31 and S52 and Appendix S13.
- NOC S5.146** The bands 9 400 - 9 500 kHz, 11 600 - 11 650 kHz, 12 050 - 12 100 kHz, 15 600 - 15 800 kHz, 17 480 - 17 550 kHz and 18 900 - 19 020 kHz are allocated to the fixed service on a primary basis until 1 April 2007, subject to application of the procedure referred to in Resolution 21 (WARC-92). After 1 April 2007, frequencies in these bands may be used by stations in the fixed service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies in the fixed service, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.
- NOC S5.147** On condition that harmful interference is not caused to the broadcasting service, frequencies in the bands 9 775 - 9 900 kHz, 11 650 - 11 700 kHz and 11 975 - 12 050 kHz may be used by stations in the fixed service communicating only within the boundary of the country in which they are located, each station using a total radiated power not exceeding 24 dBW.

NOC S5.148

The bands 9 775 - 9 900 kHz, 11 650 - 11 700 kHz, 11 975 - 12 050 kHz, 13 600 - 13 800 kHz, 15 450 - 15 600 kHz, 17 550 - 17 700 kHz and 21 750 - 21 850 kHz are allocated to the fixed service on a primary basis subject to the procedure described in Resolution 8. The use of these bands by the broadcasting service shall be subject to provisions established by the World Administrative Radio Conference for the Planning of the HF Bands Allocated to the Broadcasting Service (see Resolution 508). The provisions of Resolution 512 (HFBC-87) also apply. Within these bands, the date of commencement of operations in the broadcasting service on a planned channel shall not be earlier than the date of completion of satisfactory transfer, according to the procedures described in Resolution 8, of all assignments to stations in the fixed service operating in accordance with the Table and other provisions of the Radio Regulations, which are recorded in the Master Register and which may be affected by broadcasting operations on that channel.

kHz
10 003 – 13 410

Allocation to Services		
Region 1	Region 2	Region 3
10 003 – 10 005	STANDARD FREQUENCY AND TIME SIGNAL Space Research S5.111	
10 005 – 10 100	AERONAUTICAL MOBILE (R) S5.111	
10 100 – 10 150	FIXED Amateur S5.120	
10 150 – 11 175	FIXED Mobile except aeronautical mobile (R)	
11 175 – 11 275	AERONAUTICAL MOBILE (OR)	
11 275 – 11 400	AERONAUTICAL MOBILE (R)	
11 400 – 11 600	FIXED	
11 600 – 11 650	BROADCASTING S5.134 S5.135 S5.146	
11 650 – 12 050	BROADCASTING S5.147 S5.148	
12 050 – 12 100	BROADCASTING S5.134 S5.135 S5.146	
12 100 – 12 230	FIXED	
12 230 – 13 200	MARITIME MOBILE S5.109 S5.110 S5.132 S5.145	
13 200 – 13 260	AERONAUTICAL MOBILE (OR)	
13 260 – 13 360	AERONAUTICAL MOBILE (R)	
13 360 – 13 410	FIXED RADIO ASTRONOMY S5.149	

MOD S5.149

In making assignments to stations of other services to which the bands:

13 360 - 13 410 kHz,	4 825 - 4 835 MHz*,	93.07 - 93.27 GHz*,
25 550 - 25 670 kHz,	4 950 - 4 990 MHz,	97.88 - 98.08 GHz*,
37.5 - 38.25 MHz,	4 990 - 5 000 MHz,	140.69 - 140.98 GHz*,
73 - 74.6 MHz in Regions 1 and 3,	6 650 - 6 675.2 MHz*,	144.68 - 144.98 GHz*,
79.75 - 80.25 MHz in Region 3,	10.6 - 10.68 GHz,	145.45 - 145.75 GHz*,
150.05 - 153 MHz in Region 1,	14.47 - 14.5 GHz*,	146.82 - 147.12 GHz*,
	22.01 - 22.21 GHz*,	150 - 151 GHz*,
322 - 328.6 MHz*,	22.21 - 22.5 GHz,	174.42 - 175.02 GHz*,
406.1 - 410 MHz,	22.81 - 22.86 GHz*,	177 - 177.4 GHz*,
608 - 614 MHz in Regions 1 and 3,	23.07 - 23.12 GHz*,	178.2 - 178.6 GHz*,
1 330 - 1 400 MHz*,	31.2 - 31.3 GHz,	181 - 181.46 GHz*,
1 610.6 - 1 613.8 MHz*,	31.5 - 31.8 GHz in Regions 1 and 3,	186.2 - 186.6 GHz*,
1 660 - 1 670 MHz,	36.43 - 36.5 GHz*,	250 - 251 GHz*,
1 718.8 - 1 722.2 MHz*,	42.5 - 43.5 GHz,	257.5 - 258 GHz*,
2 655 - 2 690 MHz,	42.77 - 42.87 GHz*,	261 - 265 GHz,
3 260 - 3 267 MHz*,	43.07 - 43.17 GHz*,	262.24 - 262.76 GHz*,
3 332 - 3 339 MHz*,	43.37 - 43.47 GHz*,	265 - 275 GHz,
3 345.8 - 3 352.5 MHz*,	48.94 - 49.04 GHz*,	265.64 - 266.16 GHz*,
	72.77 - 72.91 GHz*,	267.34 - 267.86 GHz*,
		271.74 - 272.26 GHz*

are allocated (* indicates radio astronomy use for spectral line observations), administrations are urged to take all practicable steps to protect the radio astronomy service from harmful interference. Emissions from spaceborne or airborne stations can be particularly serious sources of interference to the radio astronomy service (see Nos. S4.5 and S4.6 and Article S29).

NOC S5.150

The following bands:

13 533 - 13 567 kHz (centre frequency 13 560 kHz),
26 957 - 27 283 kHz (centre frequency 27 120 kHz),
40.66 - 40.70 MHz (centre frequency 40.68 MHz),
902 - 928 MHz in Region 2 (centre frequency 915 MHz),
2 400 - 2 500 MHz (centre frequency 2 450 MHz),
5 725 - 5 875 MHz (centre frequency 5 800 MHz), and
24 - 24.25 GHz (centre frequency 24.125 GHz)

are also designated for industrial, scientific and medical (ISM) applications. Radiocommunication services operating within these bands must accept harmful interference which may be caused by these applications. ISM equipment operating in these bands is subject to the provisions of No. S15.13.

kHz
13 410 – 15 600

Allocation to Services		
Region 1	Region 2	Region 3
13 410 – 13 570	FIXED Mobile except aeronautical mobile (R) S5.150	
13 570 – 13 600	BROADCASTING S5.134 S5.135 S5.151	
13 600 – 13 800	BROADCASTING S5.148	
13 800 – 13 870	BROADCASTING S5.134 S5.135 S5.151	
13 870 – 14 000	FIXED Mobile except aeronautical mobile (R)	
14 000 – 14 250	AMATEUR S5.120 AMATEUR-SATELLITE	
14 250 – 14 350	AMATEUR S5.120 S5.152	
14 350 – 14 990	FIXED Mobile except aeronautical mobile (R)	
14 990 – 15 005	STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz) S5.111	
15 005 – 15 010	STANDARD FREQUENCY AND TIME SIGNAL Space Research	
15 010 – 15 100	AERONAUTICAL MOBILE (OR)	
15 100 – 15 600	BROADCASTING S5.148	

NOC S5.151

The bands 13 570 - 13 600 kHz and 13 800 - 13 870 kHz are allocated, until 1 April 2007, to the fixed service on a primary basis and to the mobile except aeronautical mobile (R) service on a secondary basis, subject to application of the procedure referred to in Resolution 21 (WARC-92). After 1 April 2007, frequencies in these bands may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which they are located, on the condition that harmful interference is not caused to the broadcasting service. When using frequencies in these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.

MOD S5.152

Additional allocation: in Armenia, Azerbaijan, Belarus, China, Côte d'Ivoire, Georgia, the Islamic Republic of Iran, Kazakhstan, Moldova, Uzbekistan, Kyrgyzstan, Russia, Tajikistan, Turkmenistan and Ukraine, the band 14 250 - 14 350 kHz is also allocated to the fixed service on a primary basis. Stations of the fixed service shall not use a radiated power exceeding 24 dBW.